## Percentages 1 Answers

1) 

(a) $\mid 0641$
(b) \$204
2)

139
3) 18

| 1 | Allow 6.41(am). 6:41 and 06:41 |
| :--- | :--- |
| 1 | Not 6h41m or 641h or 6.41pm |


$|$|  | 2 | M1 $1.322 \times 10^{9} / 9.5 \times 10^{8}(\times 100)$ |
| :--- | :--- | :--- |
| 2 | M1 for $21.6 \div 1.2$ oe |  |

4) 


5)

| (a) | $240 \div 8 \times 3$ or $240 \div 8 \times 5$ or $\frac{3}{8}$ of 240 or $\frac{5}{8}$ of 240 oe | 1 | Accept reverse e.g. $90: 150=3: 5$ and $90+150=240$ |
| :---: | :---: | :---: | :---: |
| (b) (i) | 5 www 2 | 2 | M1 for $\frac{100 \times 9}{90 \times 2}$ oe |
| (ii) | 165 www 2 | 2 | M1 for $99 \div 0.6$ oe |
| (c) | 162.24 final answer cao | 2 | M1 for $150 \times 1.04 \times 1.04$ oe implied by answer 162.2 |
| (d) (i) | 58.67 final answer cao | 3 | SC2 for 58.7 or <br> M1 for $\frac{150 \times 4 \times 20}{100}$ oe (120) <br> then M1 (dependent on the first M1) <br> $328.67-150$ - their 120 oe <br> Answers of 208.67 or 208.7 imply first M1 |
| (ii) | 219 (.1...) www 2 | 2 | M1 for $\frac{328.67}{150} \times 100$ oe |

## Percentages 1 Answers

6) 



3

2
SC2 for 31.827 as final answer or not spoiled. or M1 for $\times 1.03$ twice oe

M1 for $\frac{30 \times r \times 5}{100}=2.25$ oe or for $2.25 \div 5$ then $\div 30 \times 100$
7)
(b) $\quad 349.70$
(c) $\quad 617.98$

3
$3 \quad$ M1 for $\frac{325 \times 2 \times 3.8}{100}$ or $24.7(0)$
M1dep for their interest added to 325

M2 for $550 \times 1.06^{2}$
or M1 for $550 \times 1.06$ oe and M1 dep for second year
Penalise accuracy only once in the question
8)

| (a) | 314.60 |
| :--- | :--- |
| (b) | 703.04 |

$3 \quad$ M1 for $\frac{275 \times 4 \times 3.6}{100}$ or 39.6
M1 dep for their interest added to 275

M2 for $650 \times 1.04^{2}$
or M1 for $650 \times 1.04$ oe (implied by 676) and M1 dep for second year
9) $\quad \$ 674.92,674.9(0)$ or 675
10) 216.32 cao

| 2 | M1 $200 \times(1+(4 / 100))^{2}$ oe |
| :--- | :--- |

$3 \quad$ M1 for $120 \times 1.03^{2}$
A1 for 127.308
If M0 award SC2 for 7.31 or 247.31
12) 8812.50 final answer www 3

3 Condone 8812.5
M2 for $7500 \times 5 \times 0.035+7500$ oe (implied by final answers $8810,8812,8813$ or $8812.5(0)$ seen) or B2 for 1312.5 as final answer or M1 for $7500 \times 5 \times 0.035$ oe (implied by final answers $1310,1312,1313$ )
13) 882

M1 $800 \times 1.05 \times 1.05$

